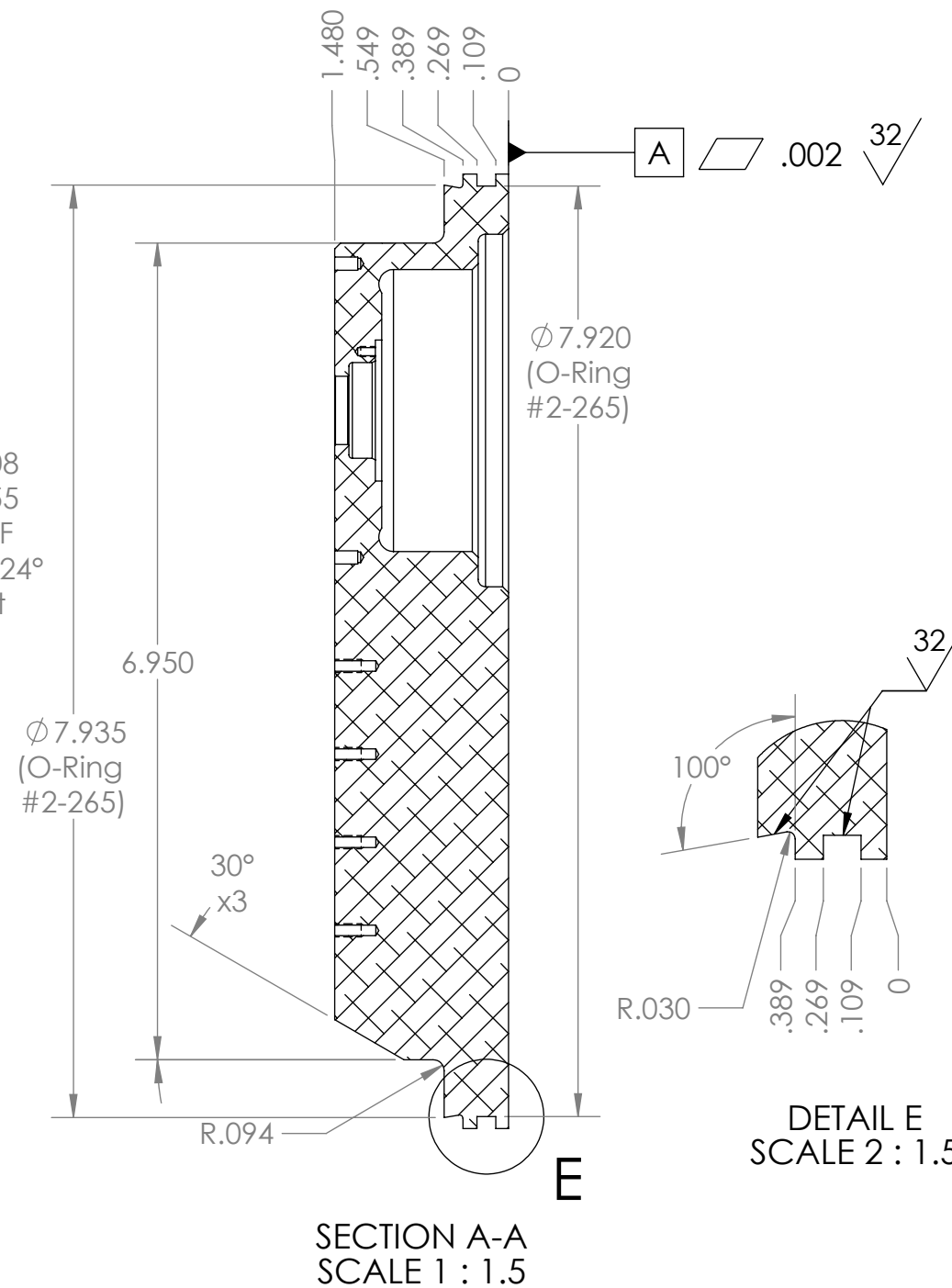


REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A.12	INITIAL RELEASE		



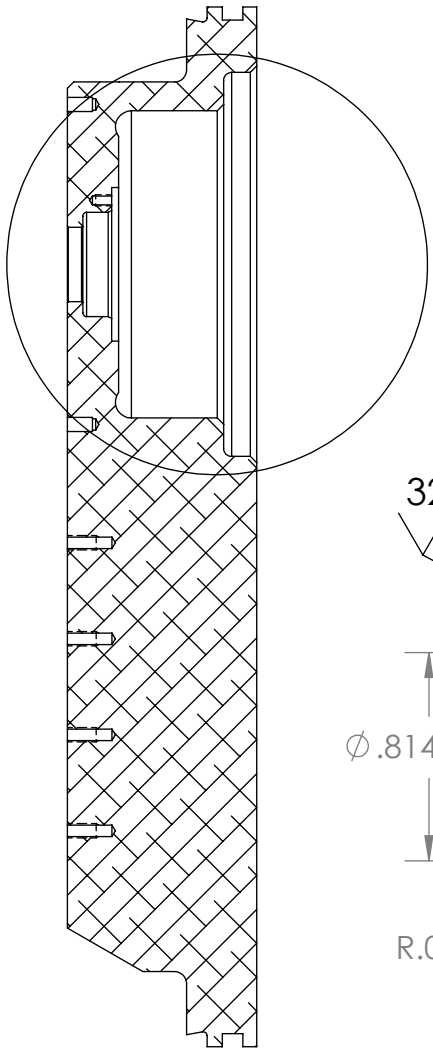
DETAIL E
SCALE 2 : 1.5

Last Saved: 7/23/2014 4:23:35 PM

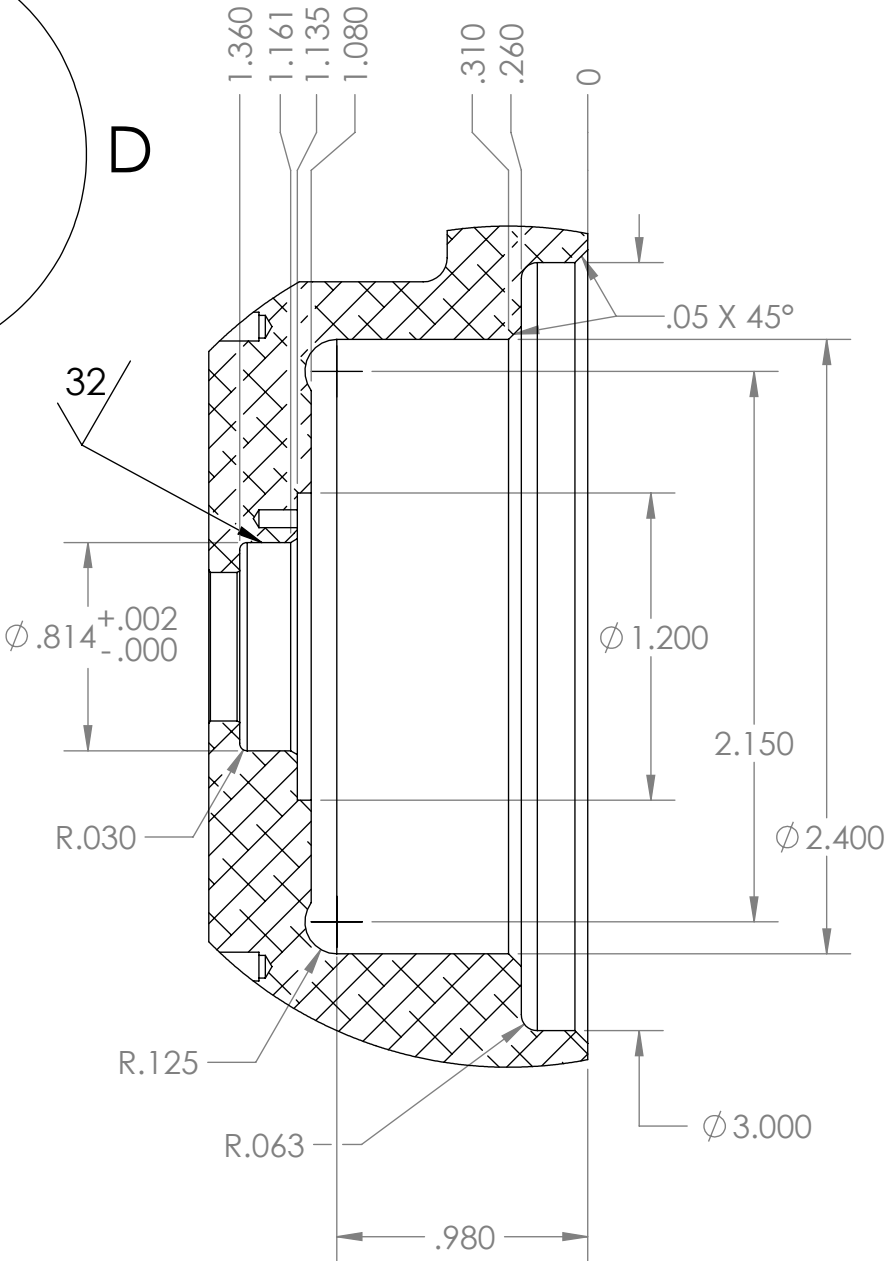
BILL OF MATERIALS					
NEXT ASSY Description	NEXT ASSY Number	UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:		APPROVALS	DATE
		1 PLACE DIM ±1/16	2 PLACE DIM ±.02	3 PLACE DIM ±.005	ANGLES ±1°
THIRD ANGLE PROJECTION		1. DIMENSIONS ARE IN INCHES 2. DIMENSION LIMITS HELD AFTER PLATING. 3. REMOVE BURRS AND SHARP EDGES .015 MAX. 4. MACHINED FILLET RADII .0150-.030. 5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005 6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH. MAX. .012 INCHES FOR SINGLE SURFACE.			
		APPROVALS DRAWN 3/19/2014 ENGINEER CHECKED PROJECT NO. Pump Bulkhead Assembly PROJECT			
		PROJECT NO. Pump Bulkhead Assembly PROJECT			
		WEIGHT			
DO NOT SCALE DRAWING		MONTEREY BAY AQUARIUM RESEARCH INSTITUTE MBARI 7700 Sandholdt RD. Moss Landing, CA 95039 PH: (831) 775-1700			
		SIZE B DWG. NO. 201641 SCALE 1:2 CAD FILE: SHEET 1 OF 4			
		REV. A.12			

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REV.	DESCRIPTION	DATE	APPROVED
A.12	INITIAL RELEASE		



SECTION B-B
SCALE 1 : 1.5



DETAIL D

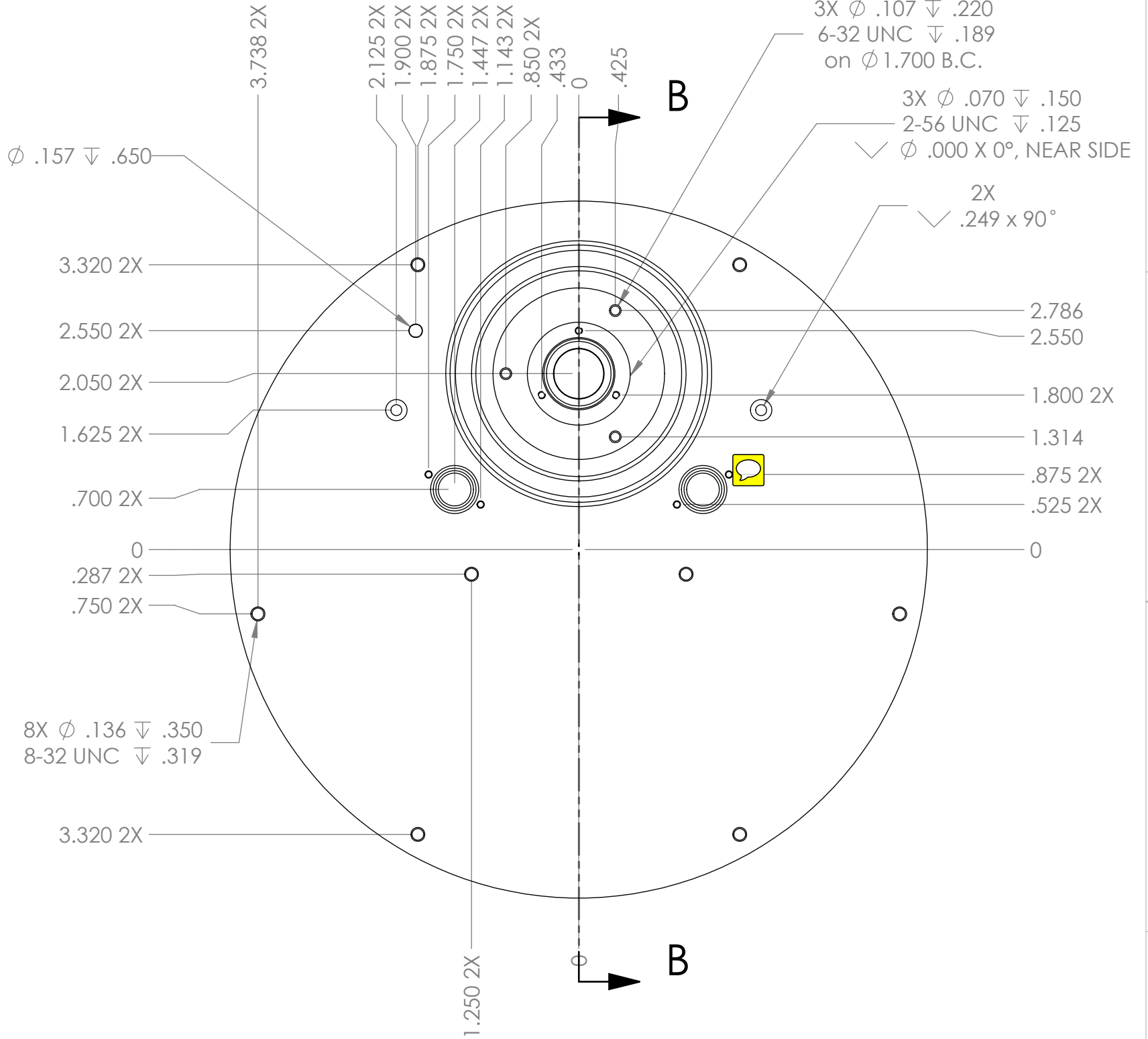
SCALE 2 : 1.5

HARD BLACK ANODIZE IN ACCORDANCE WITH MIL-A-8625 Type II (.001 THICK)

Status: In Design

Material: 6061-T6

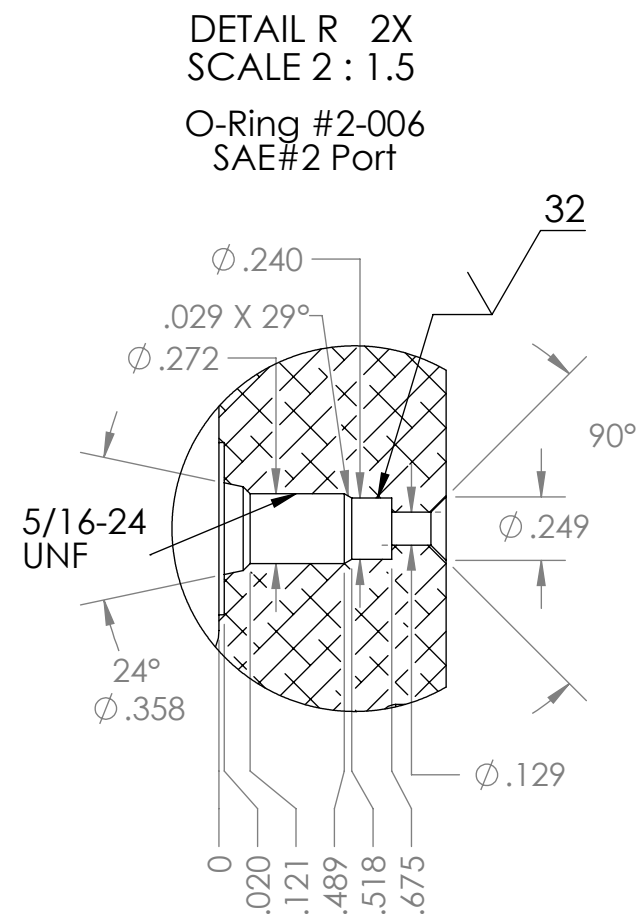
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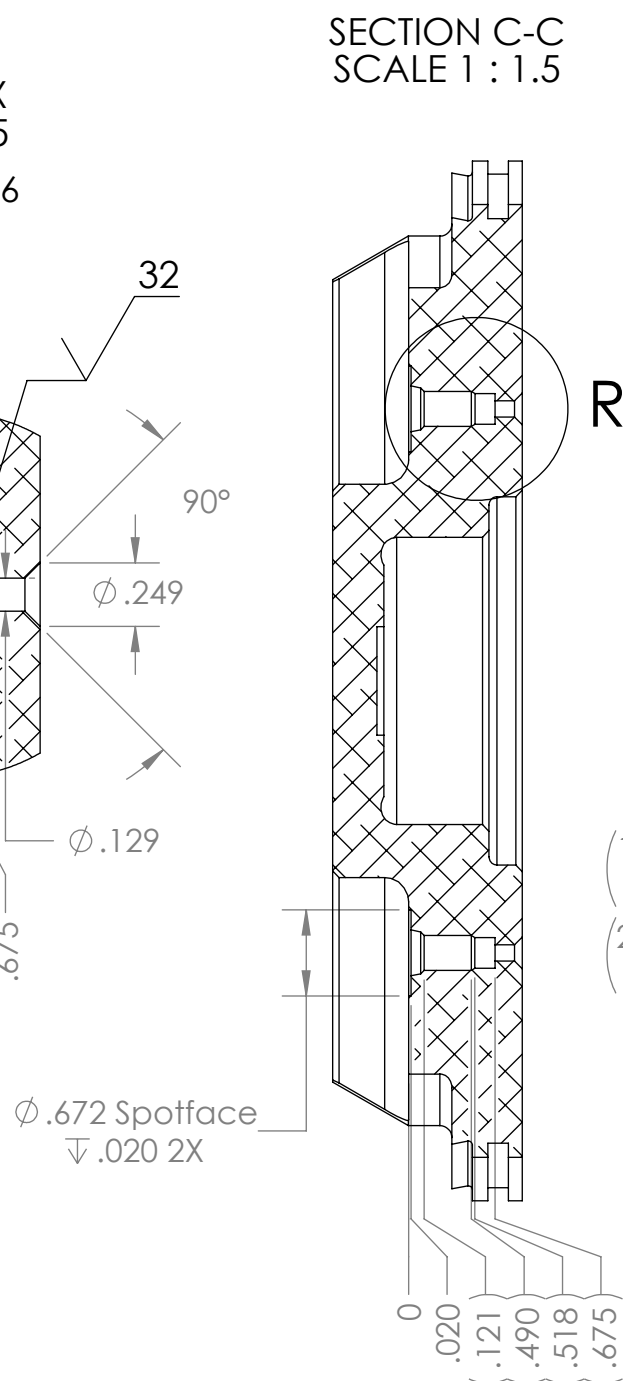
BILL OF MATERIALS			
NEXT ASSY Description	NEXT ASSY Number	UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:	APPROVALS DATE
		1 PLACE DIM $\pm 1/16$	DRAWN 3/19/2014
		2 PLACE DIM $\pm .02$	ENGINEER
		3 PLACE DIM $\pm .005$	CHECKED
		ANGLES $\pm 1^\circ$	PROJECT NO. Pump Bulkhead Assembly
			PROJECT
			WEIGHT
THIRD ANGLE PROJECTION		1. DIMENSIONS ARE IN INCHES 2. DIMENSION LIMITS HELD AFTER PLATING. 3. REMOVE BURRS AND SHARP EDGES .015 MAX. 4. MACHINED FILLET RADII .0150-.030. 5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005 6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH, MAX .012 INCHES FOR SINGLE SURFACE.	Monterey Bay Aquarium Research Institute MBARI 7700 Sandholdt RD. Moss Landing, CA 95039 PH: (831) 775-1700
		DO NOT SCALE DRAWING	P-201641-14
			SIZE B DWG. NO. 201641 REV. A.12
			SCALE 1:2 CAD FILE: SHEET 2 OF 4

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF MBARI ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF MBARI IS PROHIBITED.

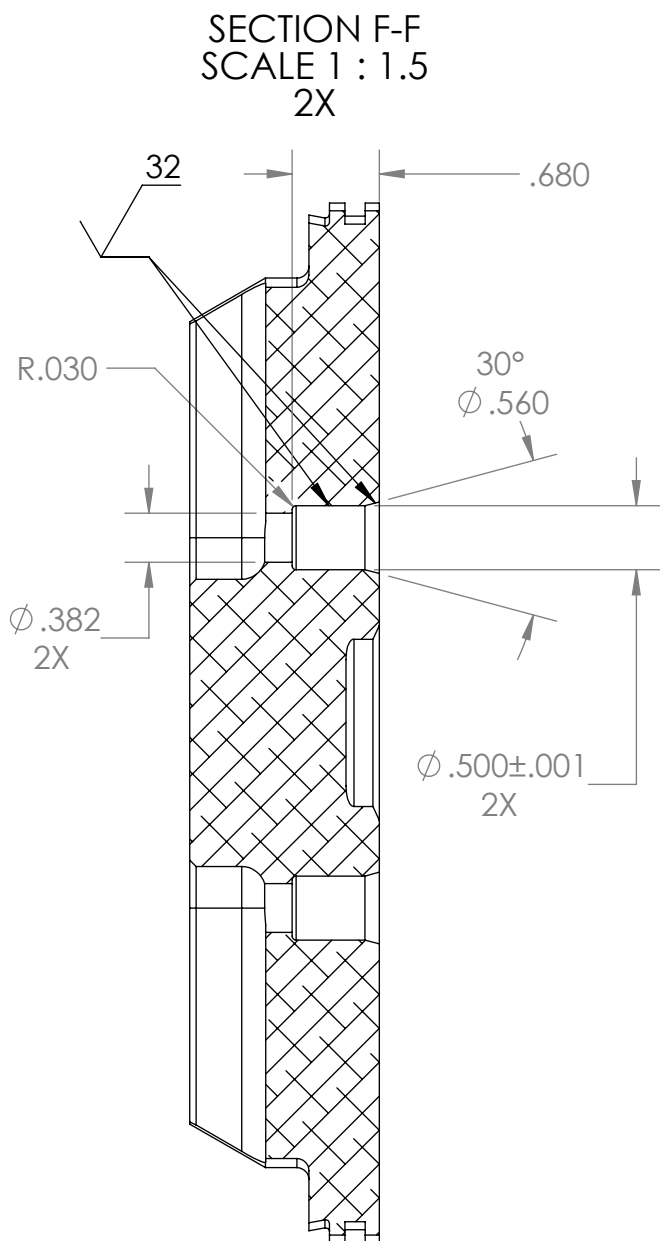
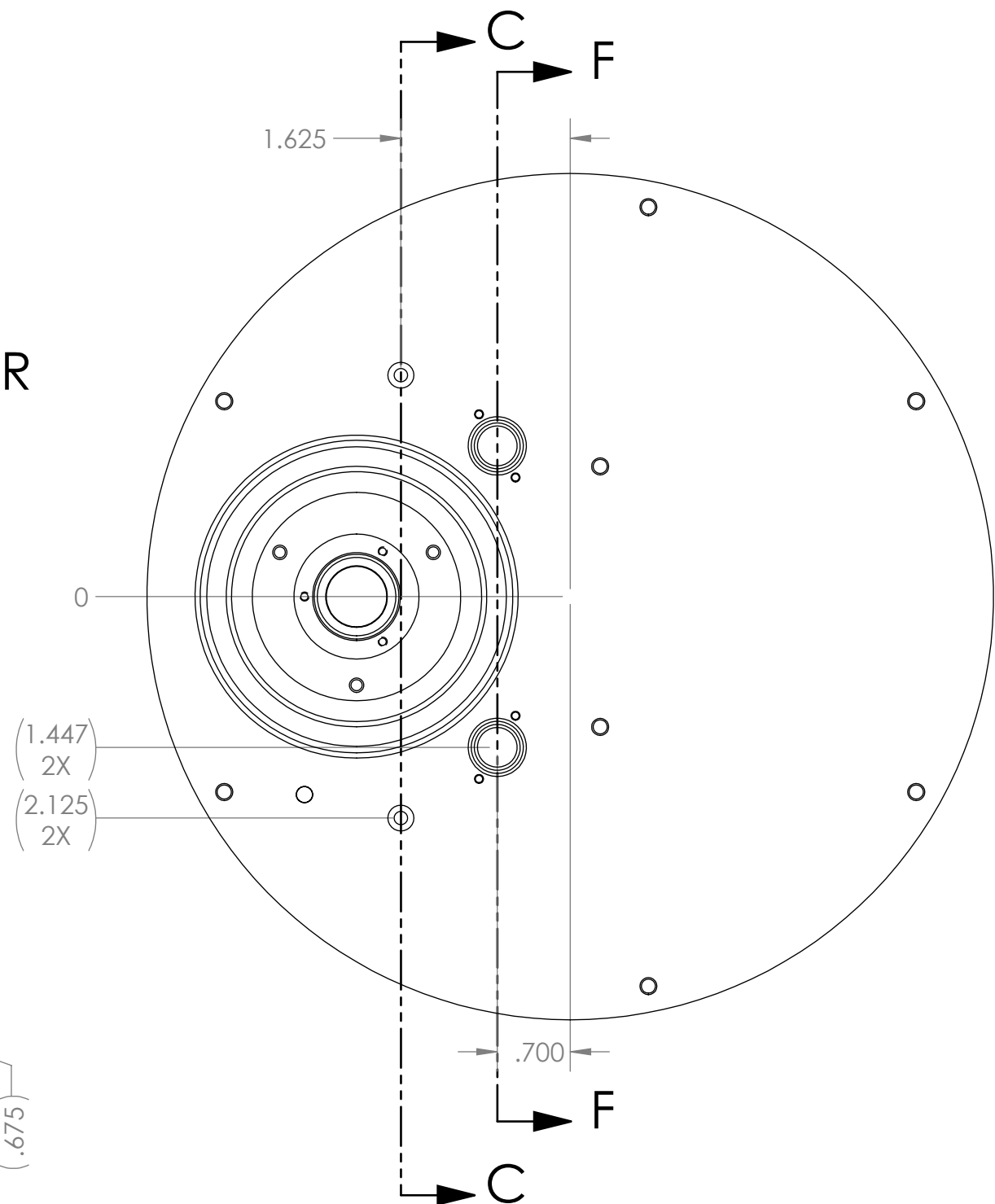
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A.12	INITIAL RELEASE		



DETAIL R 2X
SCALE 2 : 1.5
O-Ring #2-006
SAE#2 Port



SECTION C-C
SCALE 1 : 1.5



SECTION F-F
SCALE 1 : 1.5
2X

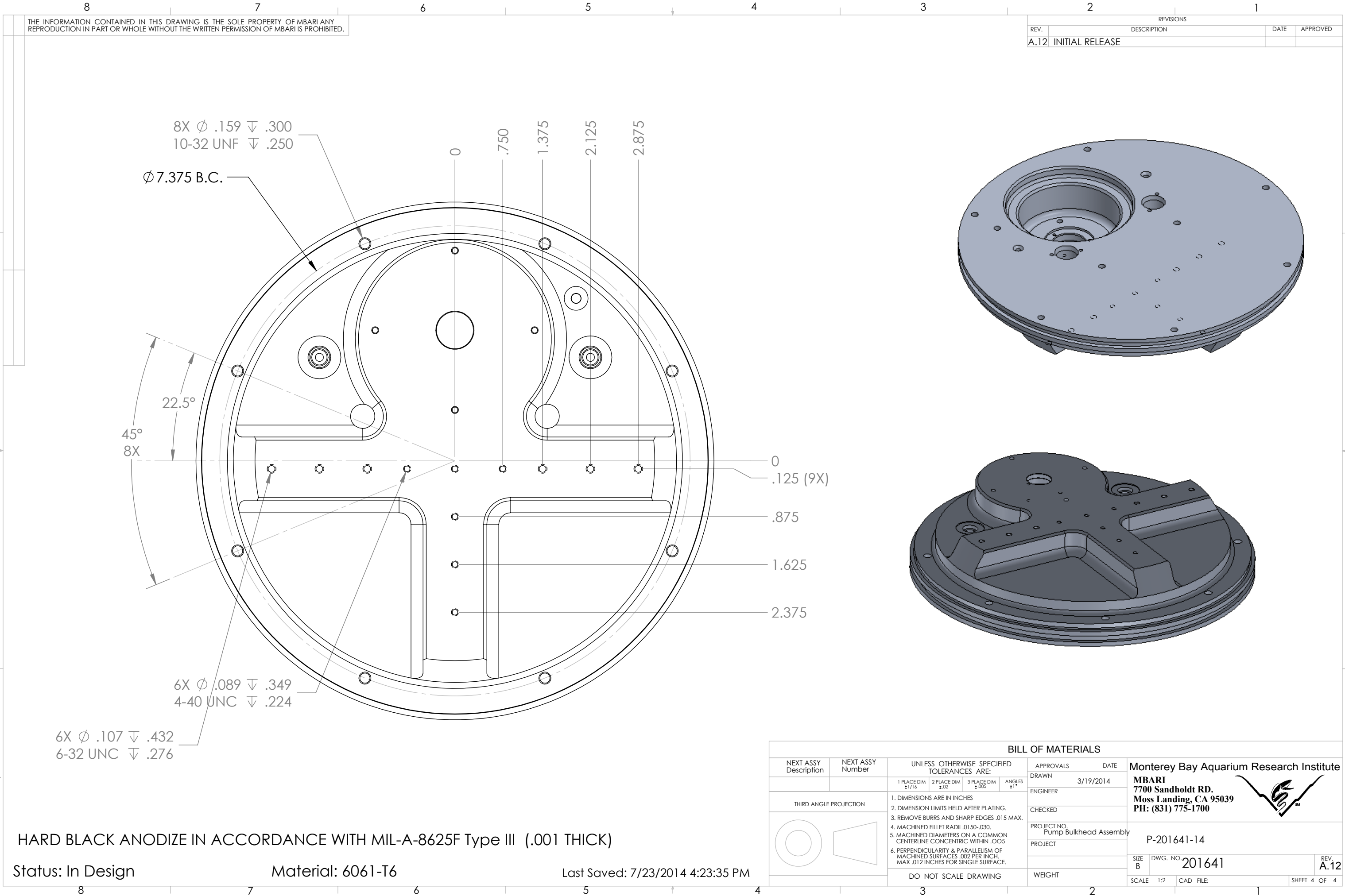
BILL OF MATERIALS										
NEXT ASSY Description	NEXT ASSY Number	UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:				APPROVALS	DATE	Monterey Bay Aquarium Research Institute MBARI 7700 Sandholdt RD. Moss Landing, CA 95039 PH: (831) 775-1700 		
		1 PLACE DIM ±1/16	2 PLACE DIM ±.02	3 PLACE DIM ±.005	ANGLES ±1°	DRAWN	3/19/2014			
						ENGINEER				
						CHECKED				
THIRD ANGLE PROJECTION		1. DIMENSIONS ARE IN INCHES 2. DIMENSION LIMITS HELD AFTER PLATING. 3. REMOVE BURRS AND SHARP EDGES .015 MAX. 4. MACHINED FILLET RADII .0150-.030. 5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005 6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH. MAX .012 INCHES FOR SINGLE SURFACE.				PROJECT NO.		P-201641-14		
						Pump Bulkhead Assembly				
						PROJECT				
		DO NOT SCALE DRAWING				WEIGHT		SIZE B	DWG. NO.	REV.
									201641	A.12
								SCALE 1:2	CAD FILE:	SHEET 3 OF 4

HARD BLACK ANODIZE IN ACCORDANCE WITH MIL-A-8625F Type III (.001 THICK)

Status: In Design

Material: 6061-T6

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A.12	INITIAL RELEASE		

8X ϕ .159 ∇ .300
10-32 UNF ∇ .250

ϕ 7.375 B.C.

45°
8X
22.5°

6X ϕ .089 ∇ .349
4-40 UNC ∇ .224

6X ϕ .107 ∇ .432
6-32 UNC ∇ .276

0
.125 (9X)

.875

1.625

2.375

HARD BLACK ANODIZE IN ACCORDANCE WITH MIL-A-8625F Type III (.001 THICK)

Status: In Design

Material: 6061-T6

Last Saved: 7/23/2014 4:23:35 PM

BILL OF MATERIALS									
NEXT ASSY Description	NEXT ASSY Number	UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:				APPROVALS	DATE	Monterey Bay Aquarium Research Institute MBARI 7700 Sandholdt RD. Moss Landing, CA 95039 PH: (831) 775-1700	
		1 PLACE DIM $\pm 1/16$	2 PLACE DIM $\pm .02$	3 PLACE DIM $\pm .005$	ANGLES $\pm 1^\circ$	DRAWN	3/19/2014		
						ENGINEER			
						CHECKED			
THIRD ANGLE PROJECTION		1. DIMENSIONS ARE IN INCHES 2. DIMENSION LIMITS HELD AFTER PLATING. 3. REMOVE BURRS AND SHARP EDGES .015 MAX. 4. MACHINED FILLET RADII .0150-.030. 5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005 6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH, MAX .012 INCHES FOR SINGLE SURFACE.				PROJECT NO. Pump Bulkhead Assembly		P-201641-14	
						PROJECT			
						WEIGHT		SIZE B	DWG. NO. 201641
								SCALE 1:2	REV. A.12
		DO NOT SCALE DRAWING						CAD FILE:	SHEET 4 OF 4